

IN BRIEF

The 24 beam OMEGA laser system has successfully completed a performance test for the Department of Energy. An output power of 12.2 TW in a short pulse and an output energy of 1.76 kJ in a long pulse have been demonstrated.

The short wavelength conversion program has made rapid progress. Nd:glass laser output ($\lambda = 1.054 \mu\text{m}$) has been frequency doubled with an efficiency of over 80%.

After the period December, 1979 through February, 1980, several significant events have occurred.

- The Department of Energy has tentatively approved the OMEGA laser system performance test. Official confirmation is expected in the near future.
- The wavelength conversion program has obtained frequency tripling conversion efficiencies of over 75%.

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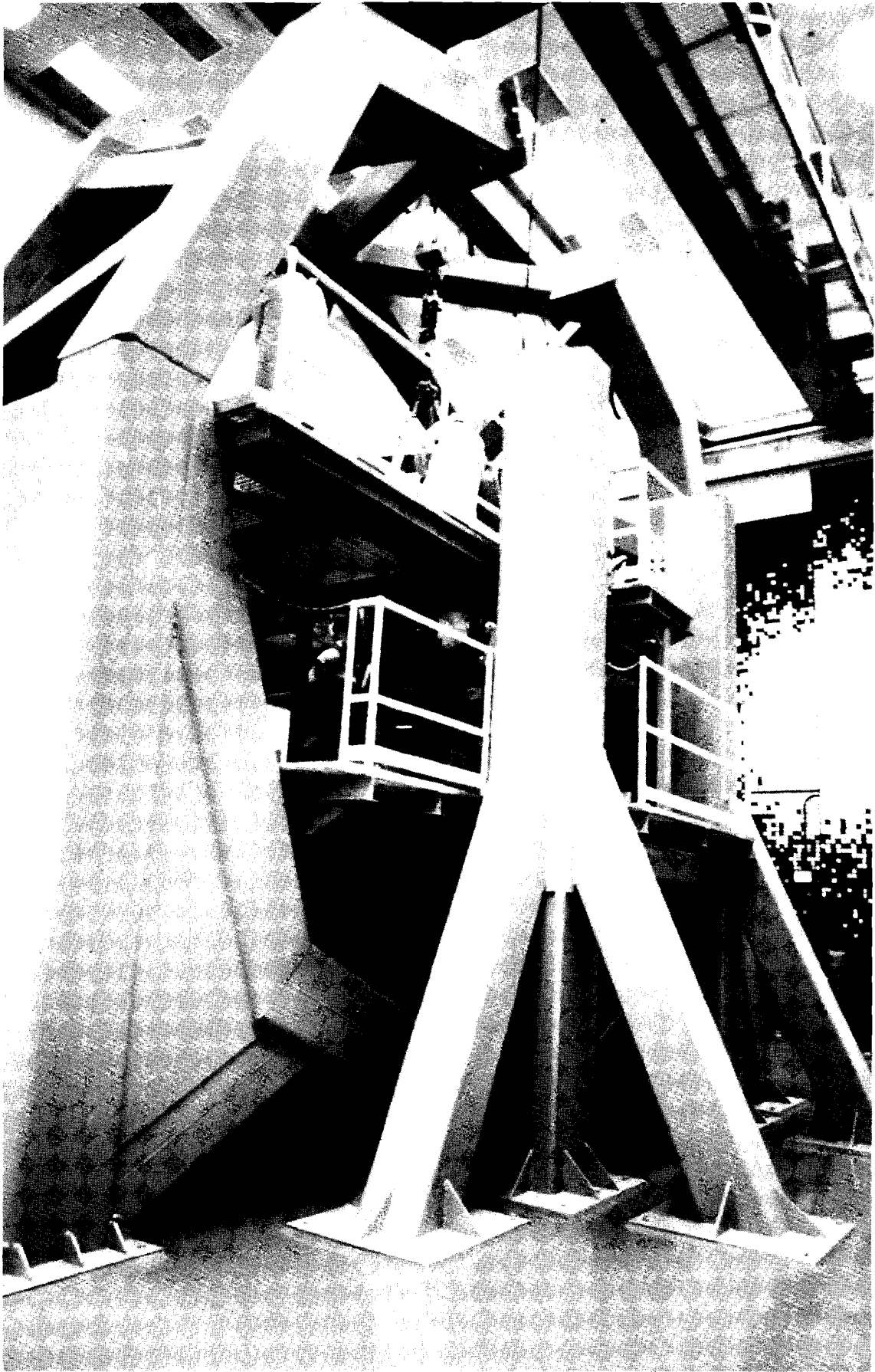


Figure 1 OMEGA target structure, February, 1980.